Title: CUSTOM APPLICATION-COMPATIBILITY SYSTEMS AND LAYERS
Inventors: D.J. Munsil et al.
Docket No: MSFT118149

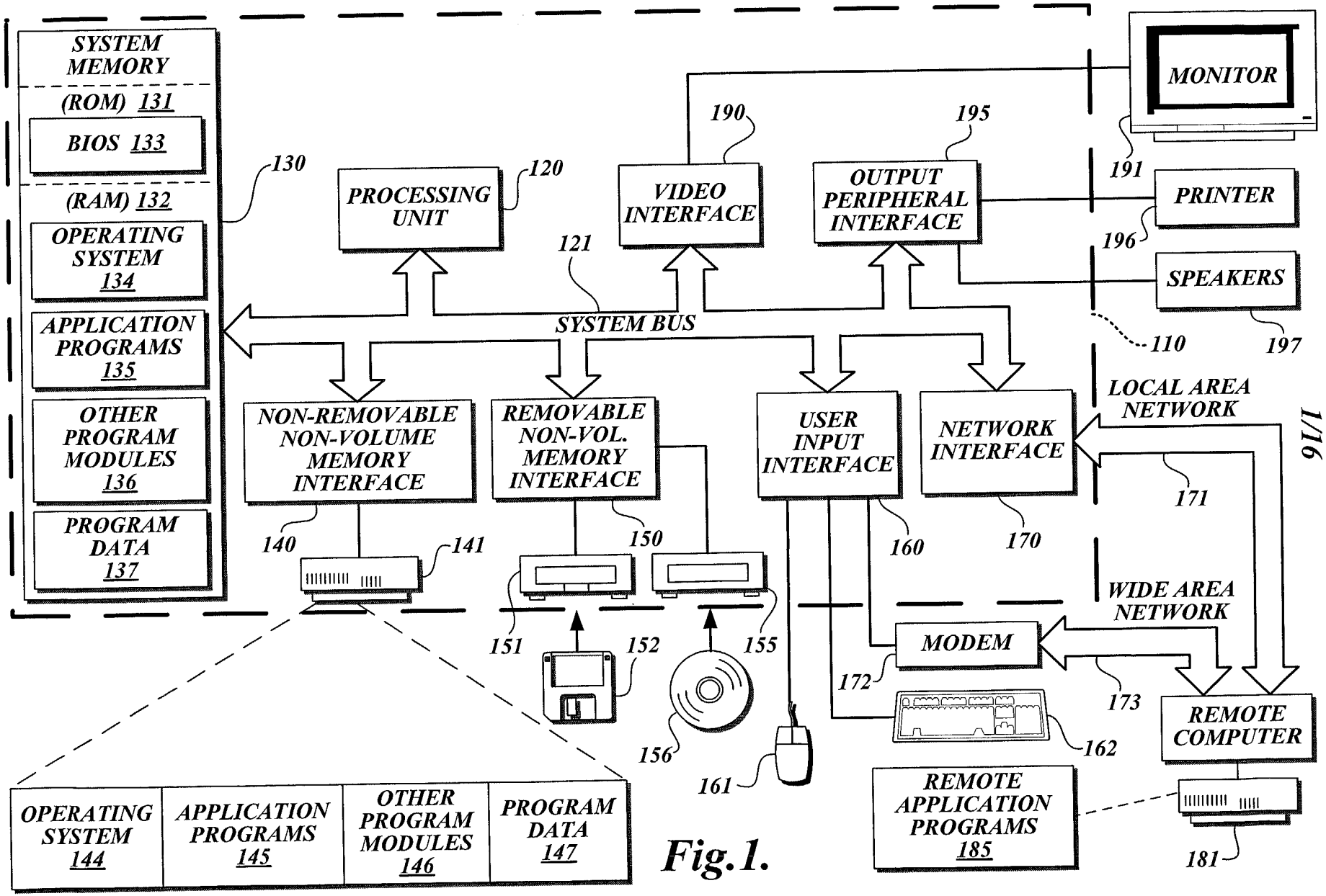

Fig. 1.

1/16

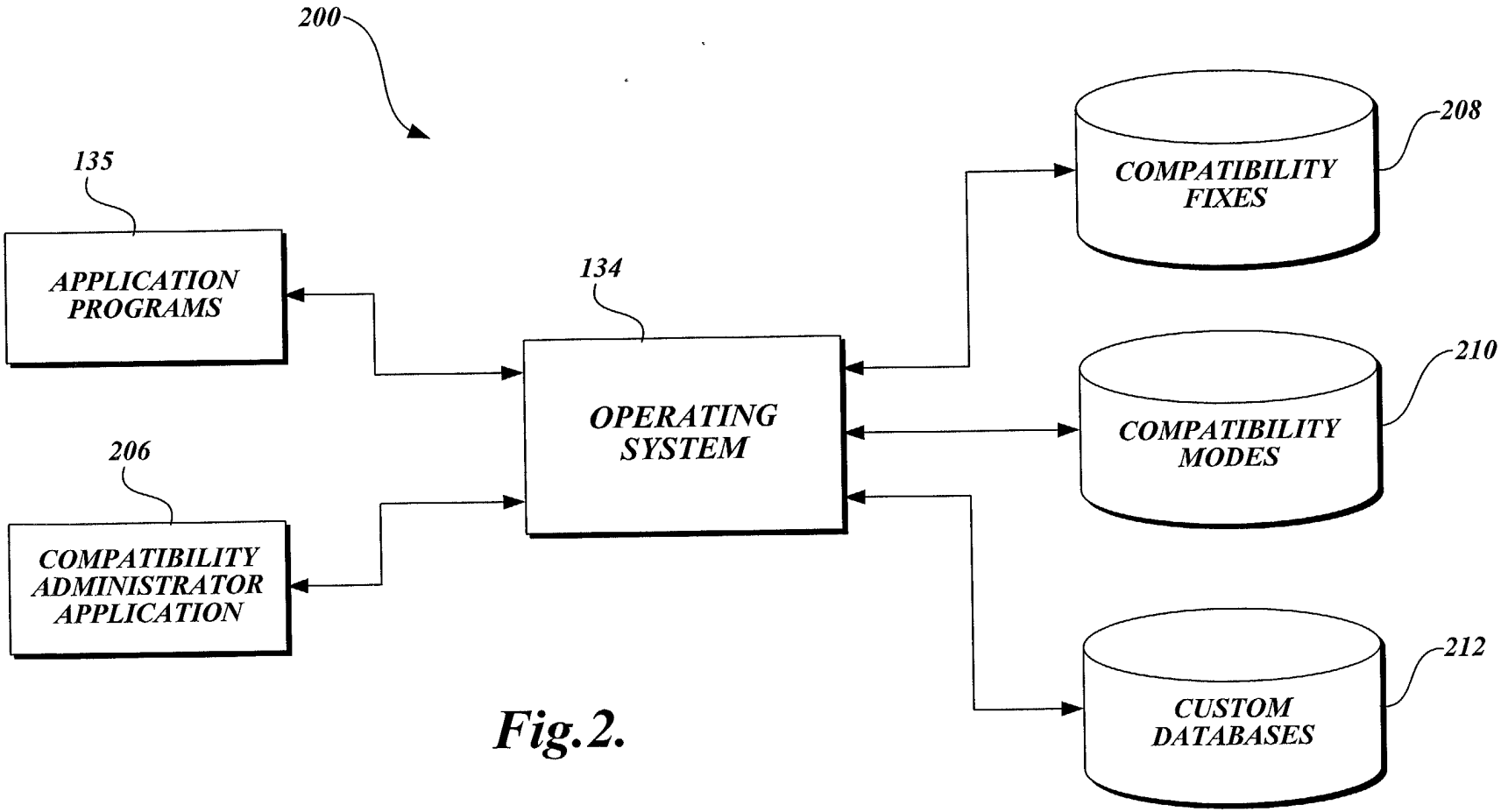
200
135
APPLICATION PROGRAMS
134
OPERATING SYSTEM
206
COMPATIBILITY ADMINISTRATOR APPLICATION
208
COMPATIBILITY FIXES
210
COMPATIBILITY MODES
212
CUSTOM DATABASES

Fig.2.

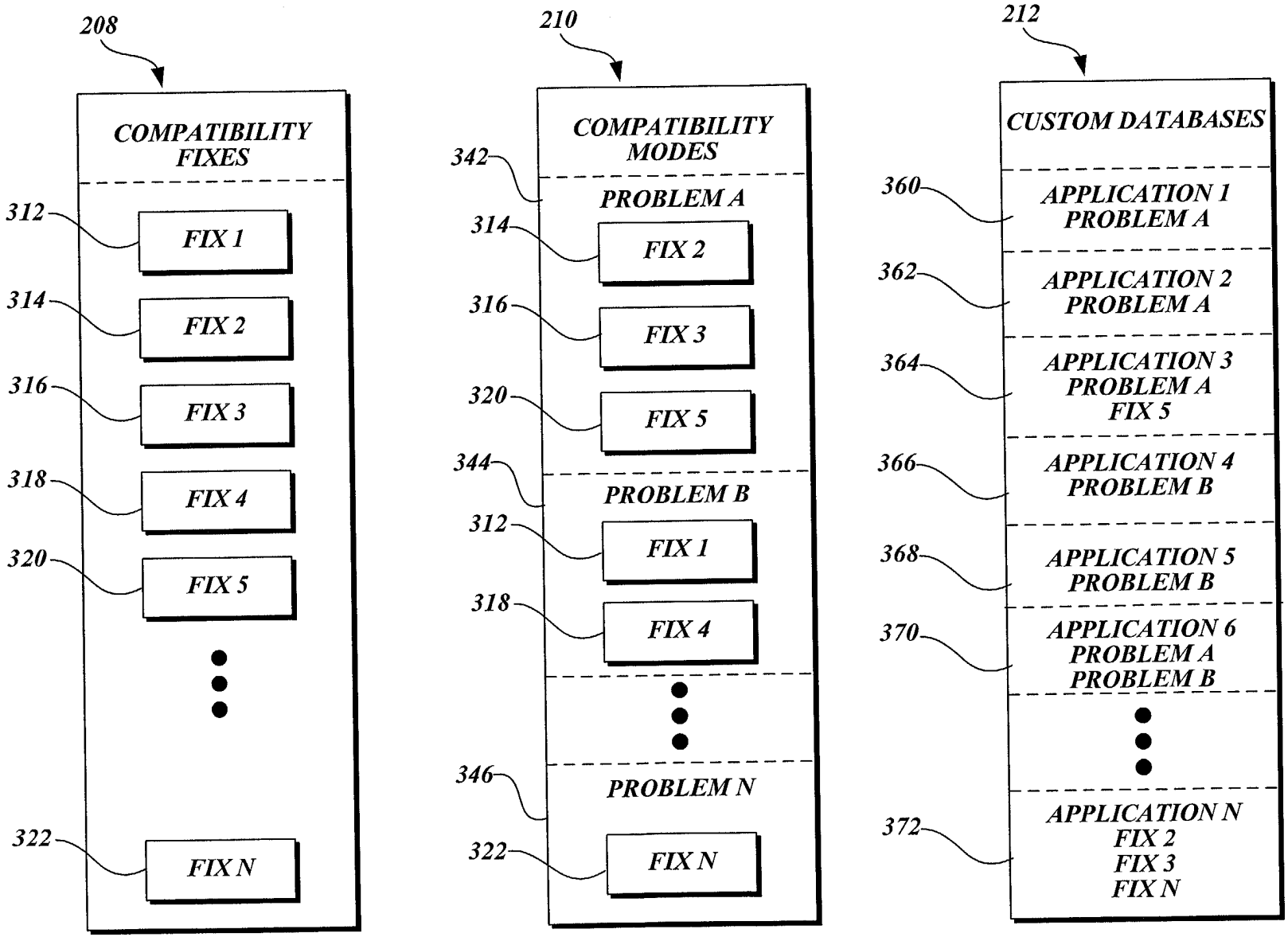
208
COMPATIBILITY FIXES
312
FIX 1
314
FIX 2
316
FIX 3
318
FIX 4
320
FIX 5
322
FIX N
210
COMPATIBILITY MODES
342
PROBLEM A
314
FIX 2
316
FIX 3
320
FIX 5
344
PROBLEM B
312
FIX 1
318
FIX 4
346
PROBLEM N
322
FIX N
212
CUSTOM DATABASES
360
APPLICATION 1 PROBLEM A
362
APPLICATION 2 PROBLEM A
364
APPLICATION 3 PROBLEM A FIX 5
366
APPLICATION 4 PROBLEM B
368
APPLICATION 5 PROBLEM B
370
APPLICATION 6 PROBLEM A PROBLEM B
372
APPLICATION N FIX 2 FIX 3 FIX N

Fig.3.

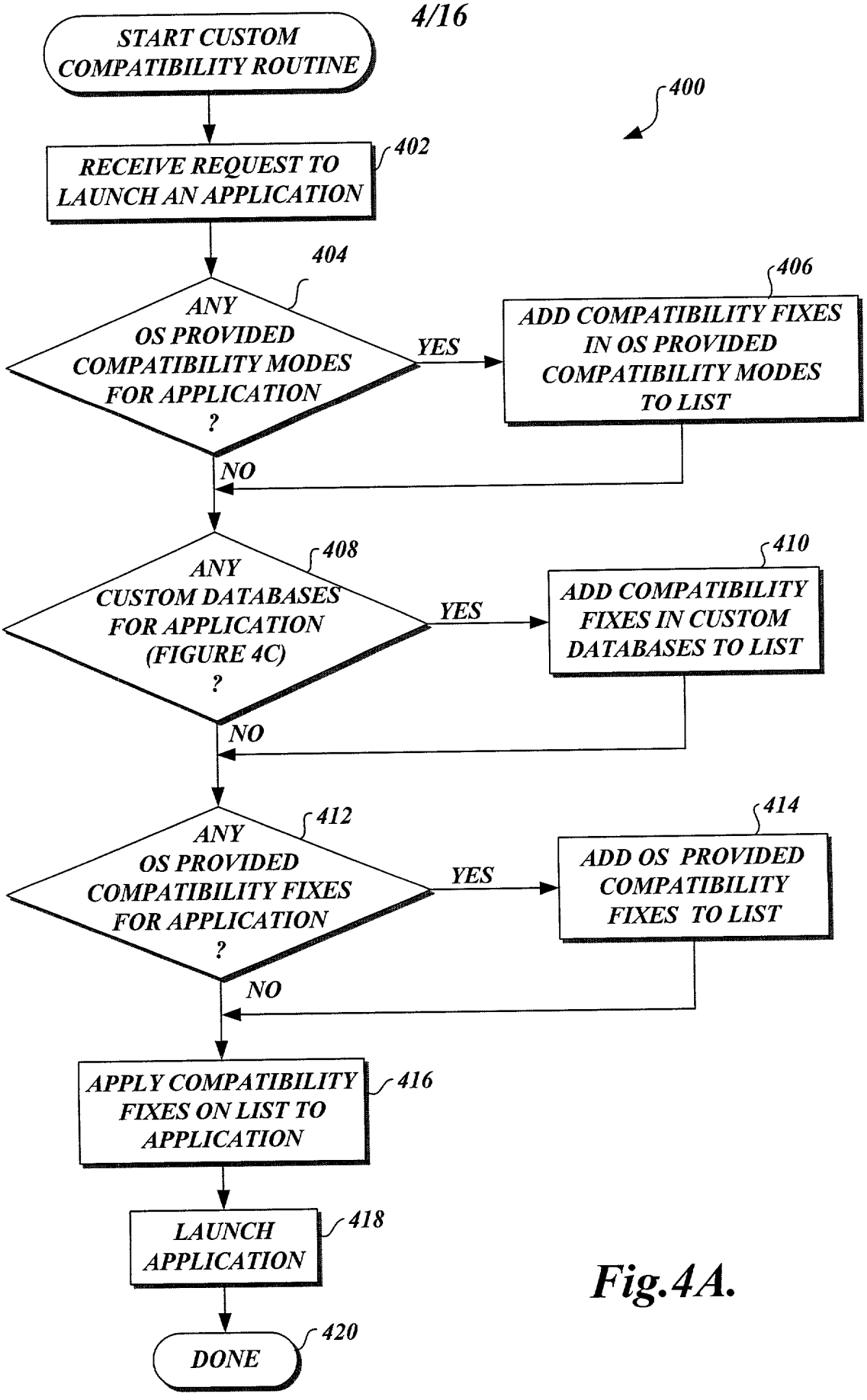
START CUSTOM COMPATIBILITY ROUTINE
400
RECEIVE REQUEST TO LAUNCH AN APPLICATION
402
404
ANY OS PROVIDED COMPATIBILITY MODES FOR APPLICATION ?
YES
406
ADD COMPATIBILITY FIXES IN OS PROVIDED COMPATIBILITY MODES TO LIST
NO
408
ANY CUSTOM DATABASES FOR APPLICATION (FIGURE 4C) ?
YES
410
ADD COMPATIBILITY FIXES IN CUSTOM DATABASES TO LIST
NO
412
ANY OS PROVIDED COMPATIBILITY FIXES FOR APPLICATION ?
YES
414
ADD OS PROVIDED COMPATIBILITY FIXES TO LIST
NO
APPLY COMPATIBILITY FIXES ON LIST TO APPLICATION
416
LAUNCH APPLICATION
418
DONE
420

Fig.4A.

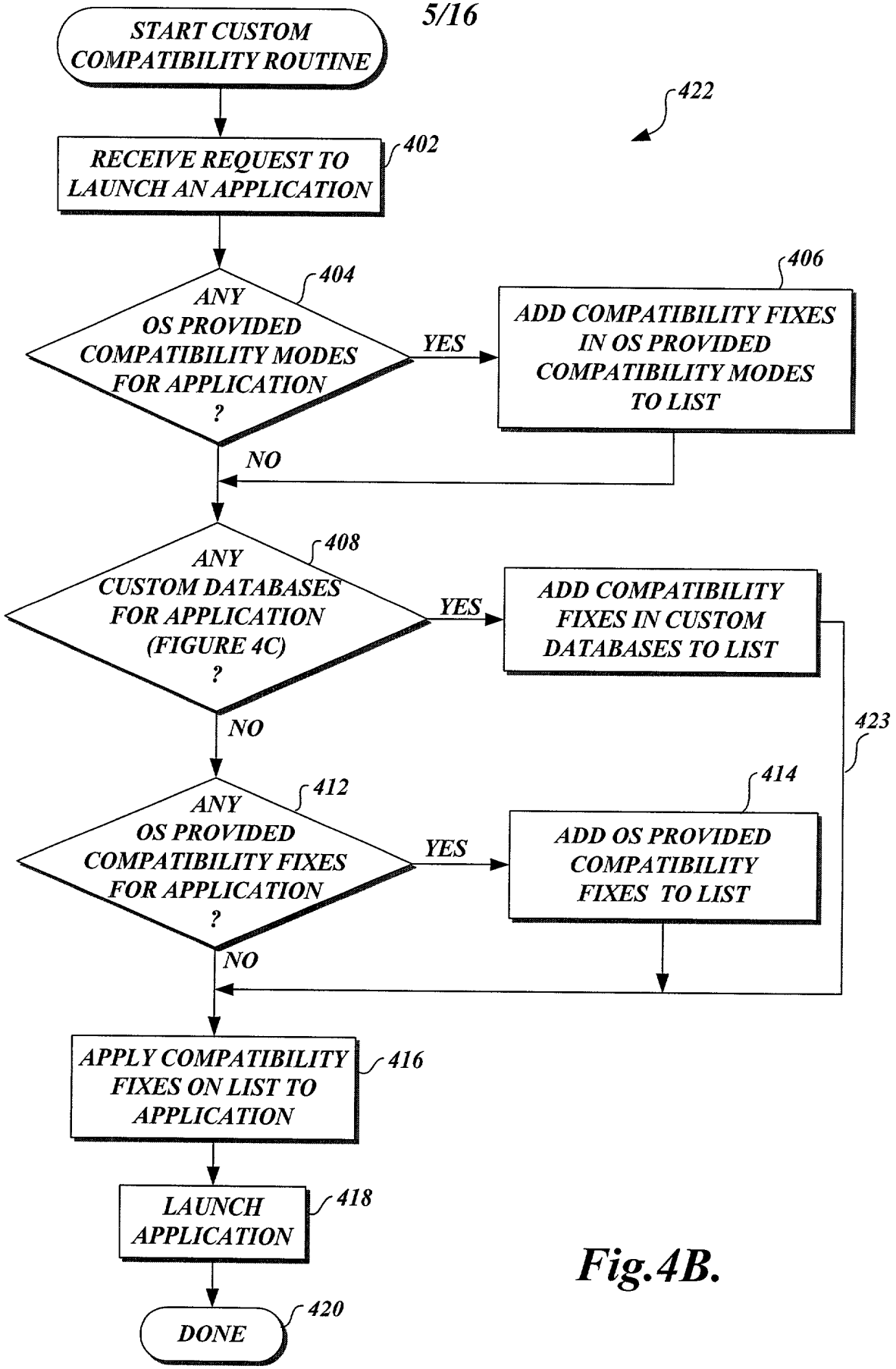

Fig.4B.

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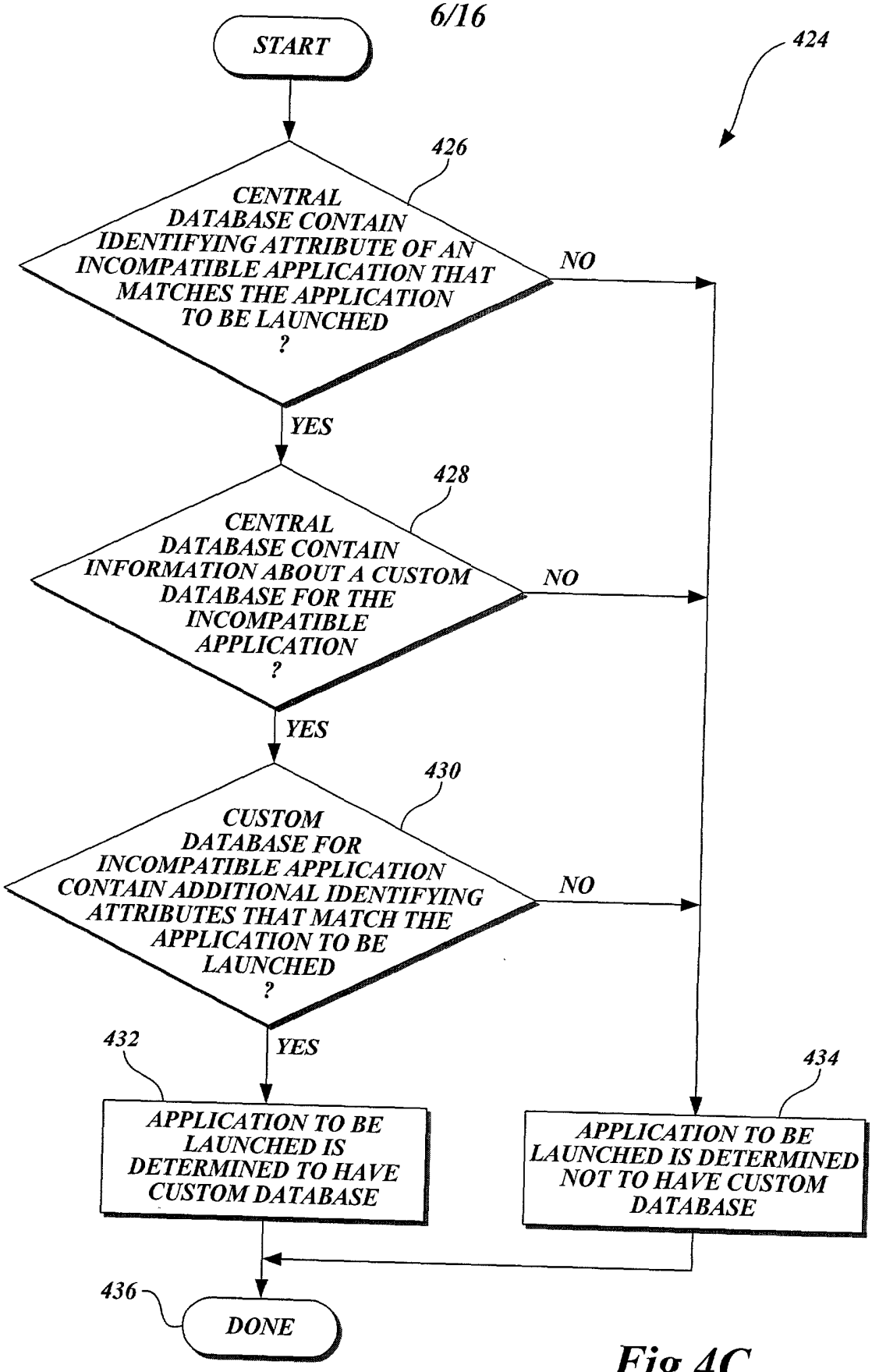

Fig.4C.

20040205-0004

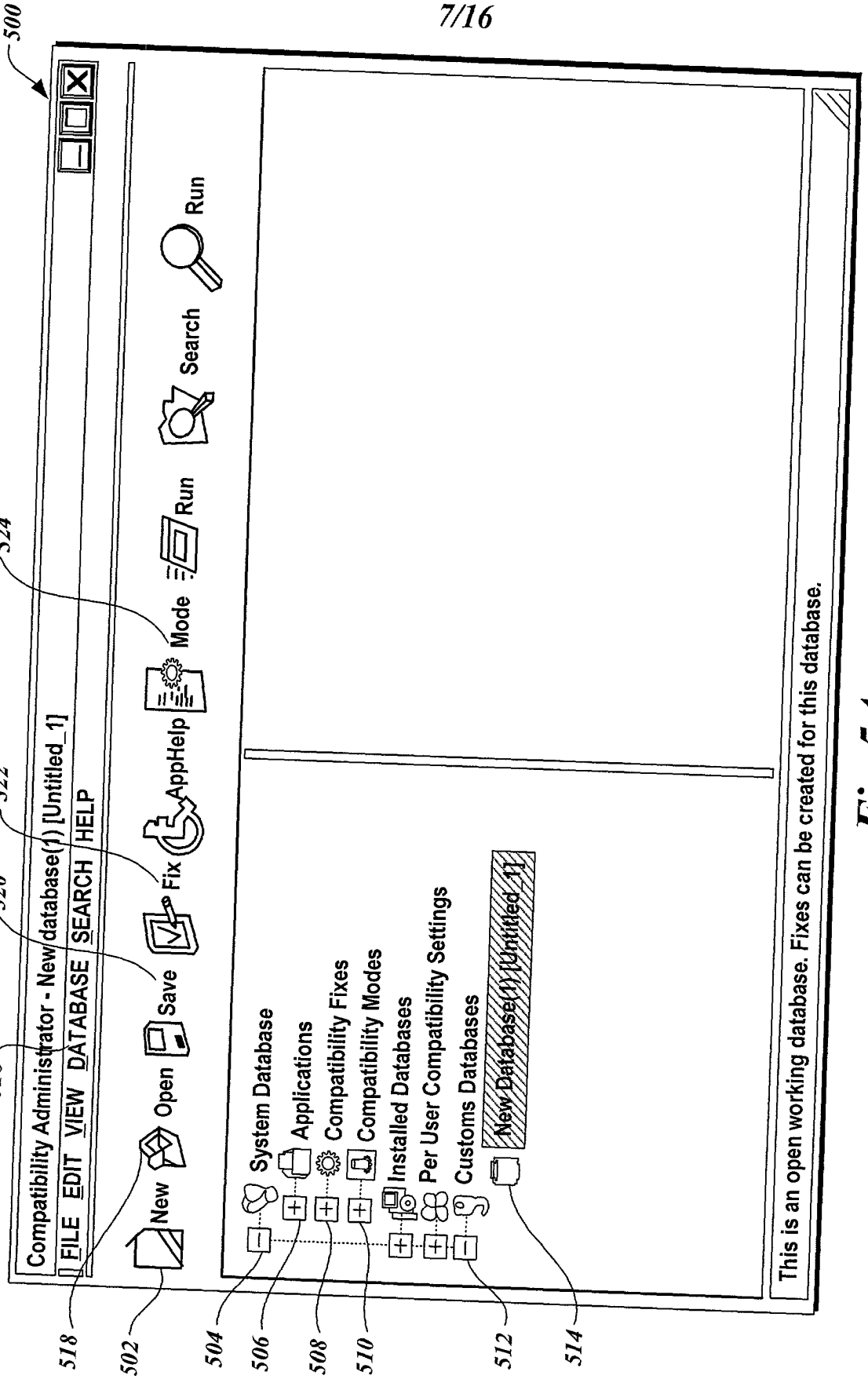
500
Compatibility Administrator - New database(1) [Untitled_1]
FILE EDIT VIEW DATABASE SEARCH HELP
New
Open
Save
Fix
AppHelp
Mode
Run
Search
Run
System Database
Applications
Compatibility Fixes
Compatibility Modes
Installed Databases
Per User Compatibility Settings
Customs Databases
New Database(1) [Untitled_1]
This is an open working database. Fixes can be created for this database.
516
518
520
522
524
502
504
506
508
510
512
514

Fig. 5A.

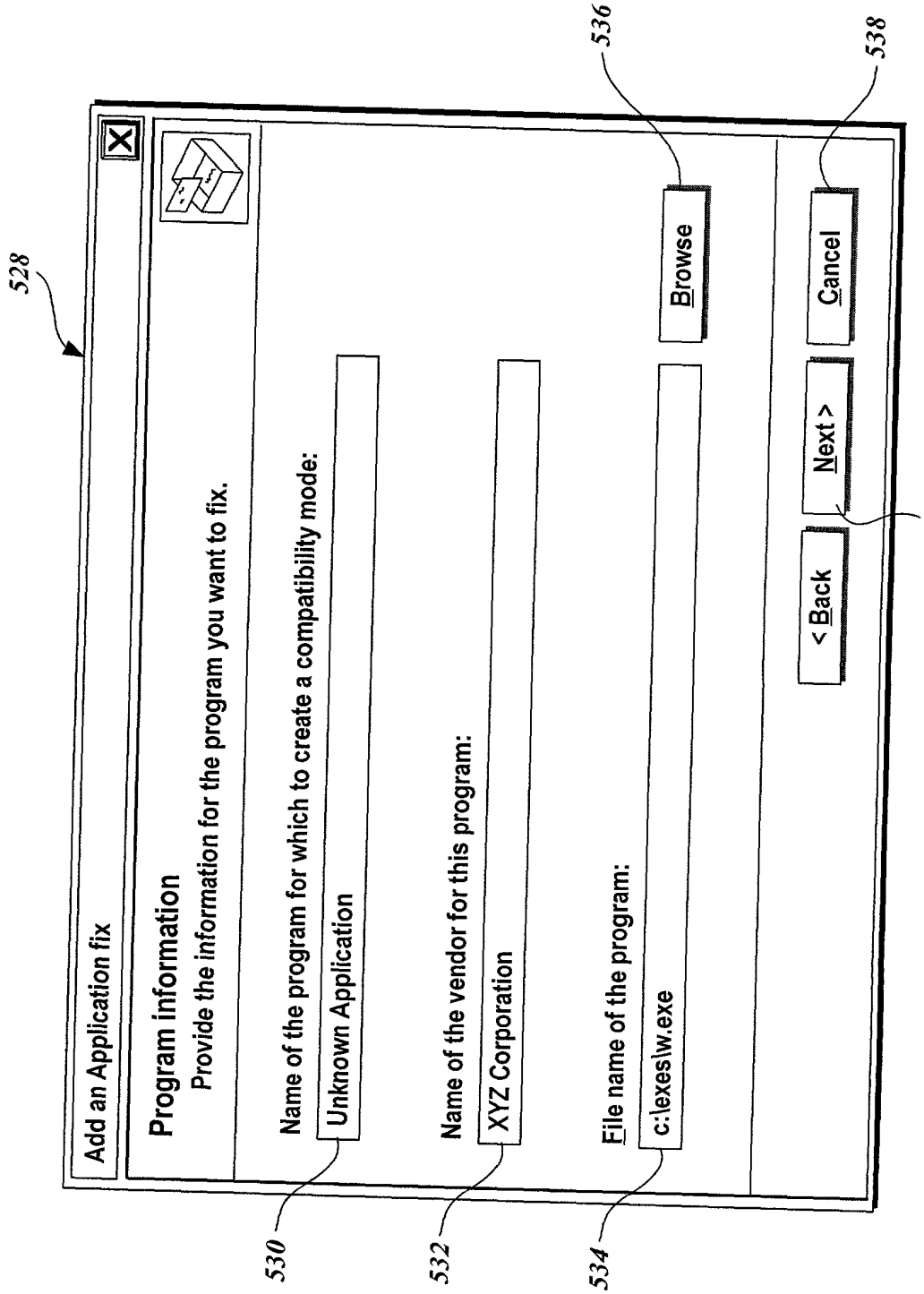
528
Add an Application fix
Program information
Provide the information for the program you want to fix.
Name of the program for which to create a compatibility mode:
Unknown Application
Name of the vendor for this program:
XYZ Corporation
File name of the program:
c:\exes\w.exe
Browse
Cancel
< Back
Next >
530
532
534
536
538
540

Fig. 5B.

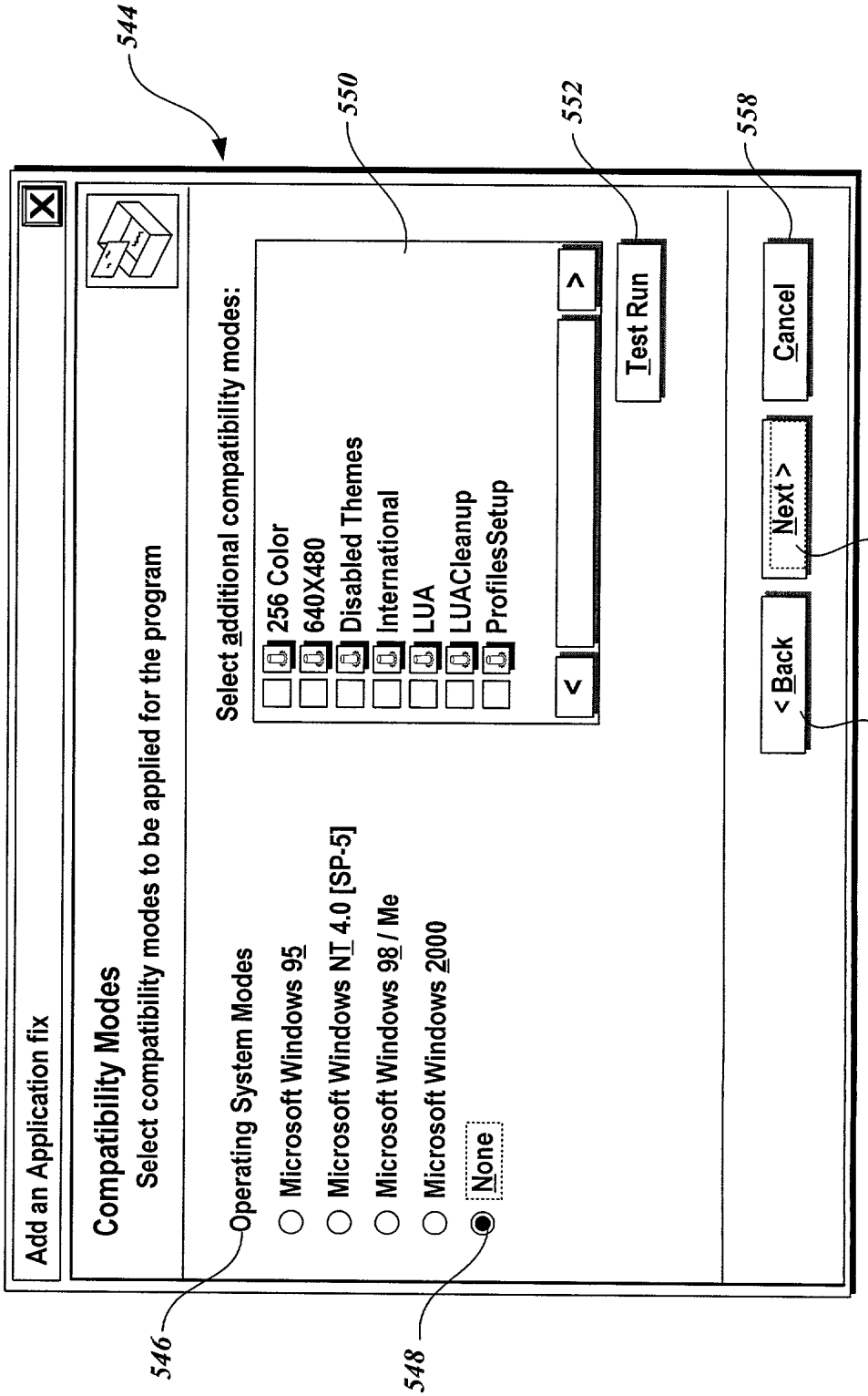
544
550
552
558
Add an Application fix
Compatibility Modes
Select compatibility modes to be applied for the program
Operating System Modes
Microsoft Windows 95
Microsoft Windows NT 4.0 [SP-5]
Microsoft Windows 98 / Me
Microsoft Windows 2000
None
Select additional compatibility modes:
256 Color
640X480
Disabled Themes
International
LUA
LUACleanup
ProfilesSetup
Test Run
Cancel
< Back
Next >
546
548
554
556

Fig.5C.

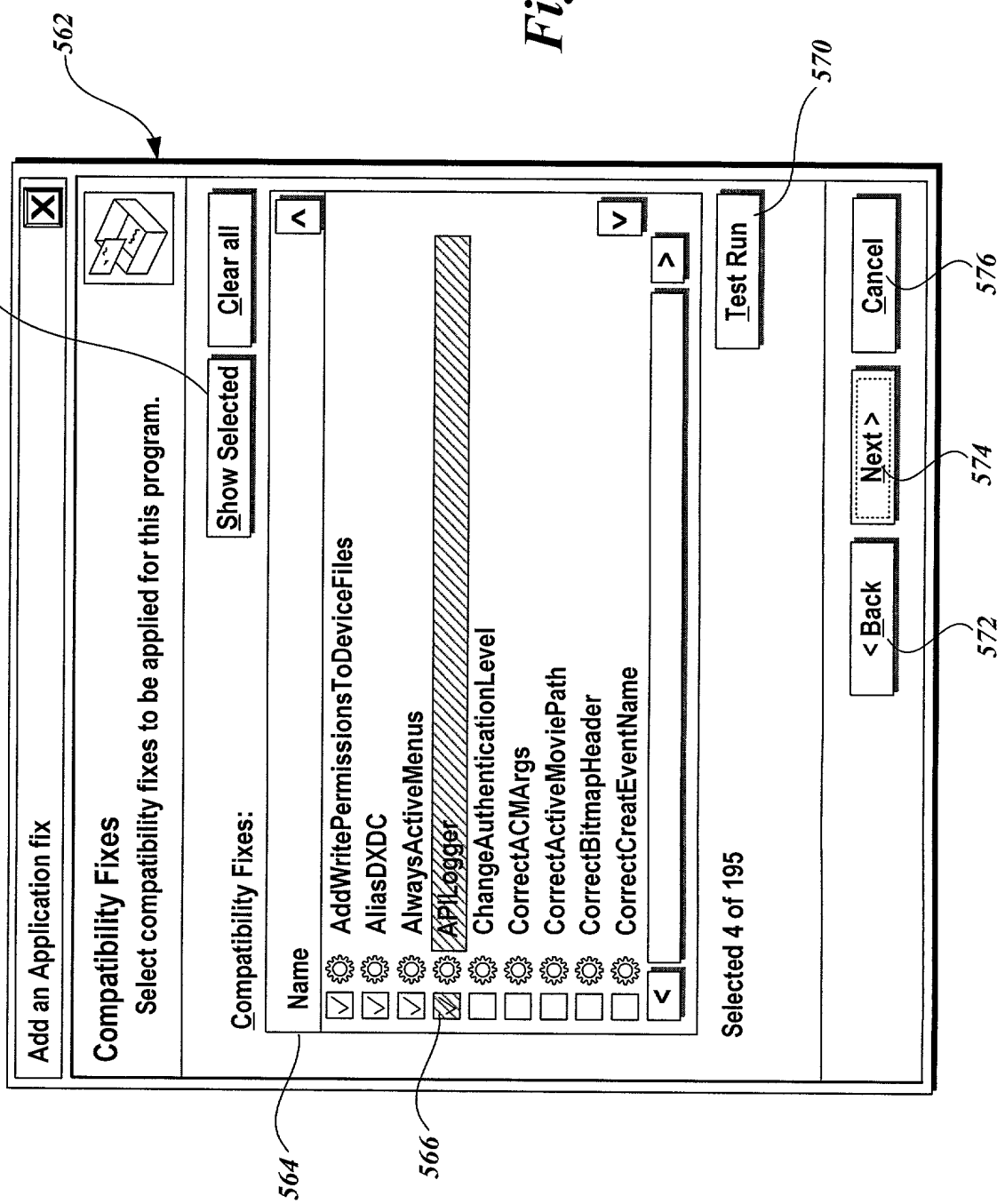
562
568
570
576
574
572
564
566
Add an Application fix
Compatibility Fixes
Select compatibility fixes to be applied for this program.
Show Selected
Clear all
Compatibility Fixes:
Name
AddWritePermissionsToDeviceFiles
AliasDXDC
AlwaysActiveMenus
APILogger
ChangeAuthenticationLevel
CorrectACMArgs
CorrectActiveMoviePath
CorrectBitmapHeader
CorrectCreatEventName
Selected 4 of 195
Test Run
Cancel
Next >
< Back

Fig. 5D.

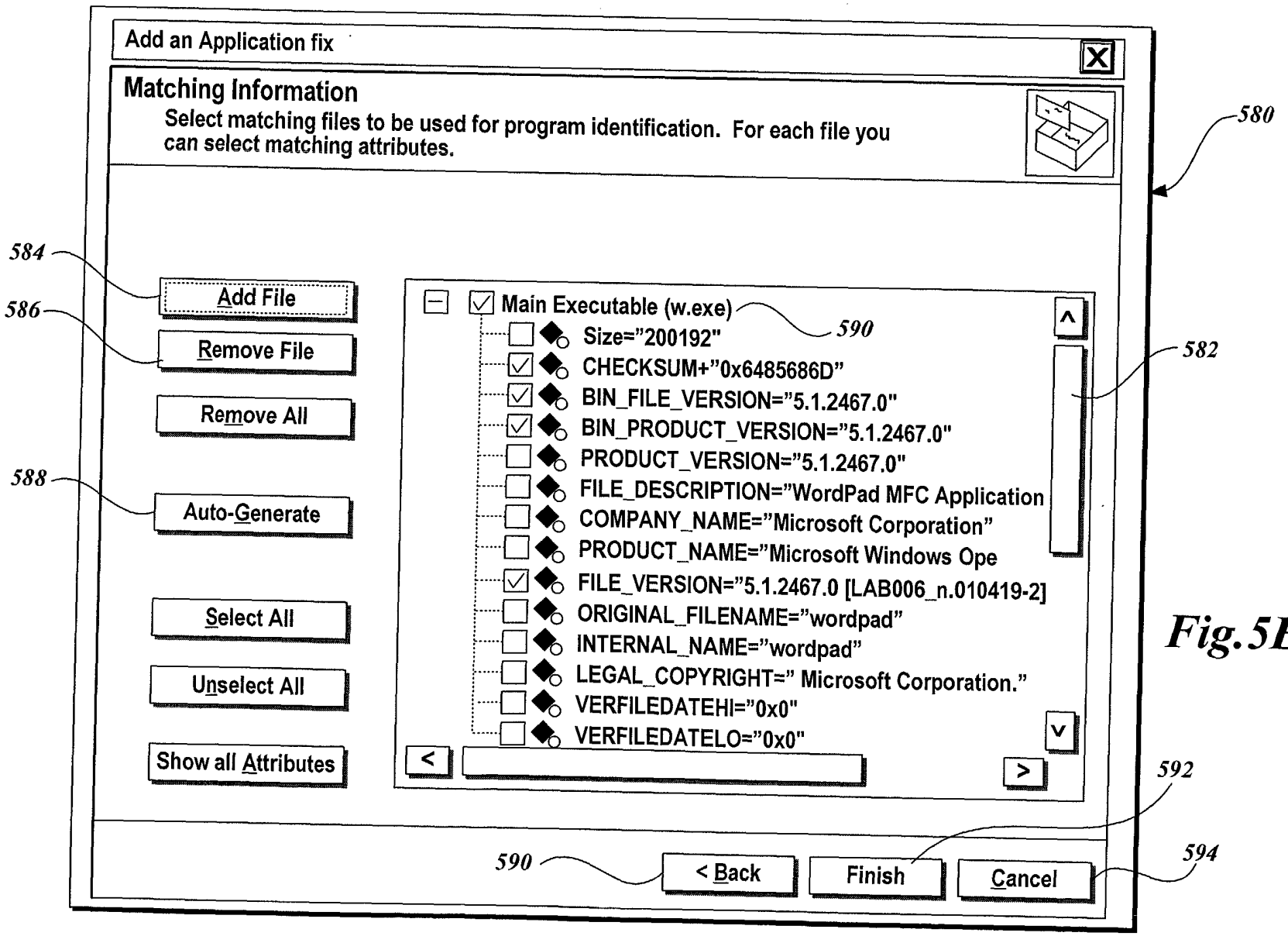
Add an Application fix
Matching Information
Select matching files to be used for program identification. For each file you can select matching attributes.
580
584
586
588
Add File
Remove File
Remove All
Auto-Generate
Select All
Unselect All
Show all Attributes
Main Executable (w.exe)
590
Size="200192"
CHECKSUM+"0x6485686D"
BIN_FILE_VERSION="5.1.2467.0"
BIN_PRODUCT_VERSION="5.1.2467.0"
PRODUCT_VERSION="5.1.2467.0"
FILE_DESCRIPTION="WordPad MFC Application
COMPANY_NAME="Microsoft Corporation"
PRODUCT_NAME="Microsoft Windows Ope
FILE_VERSION="5.1.2467.0 [LAB006_n.010419-2]
ORIGINAL_FILENAME="wordpad"
INTERNAL_NAME="wordpad"
LEGAL_COPYRIGHT=" Microsoft Corporation."
VERFILEDATEHI="0x0"
VERFILEDATELO="0x0"
582
590
< Back
Finish
Cancel
592
594

Fig. 5E.

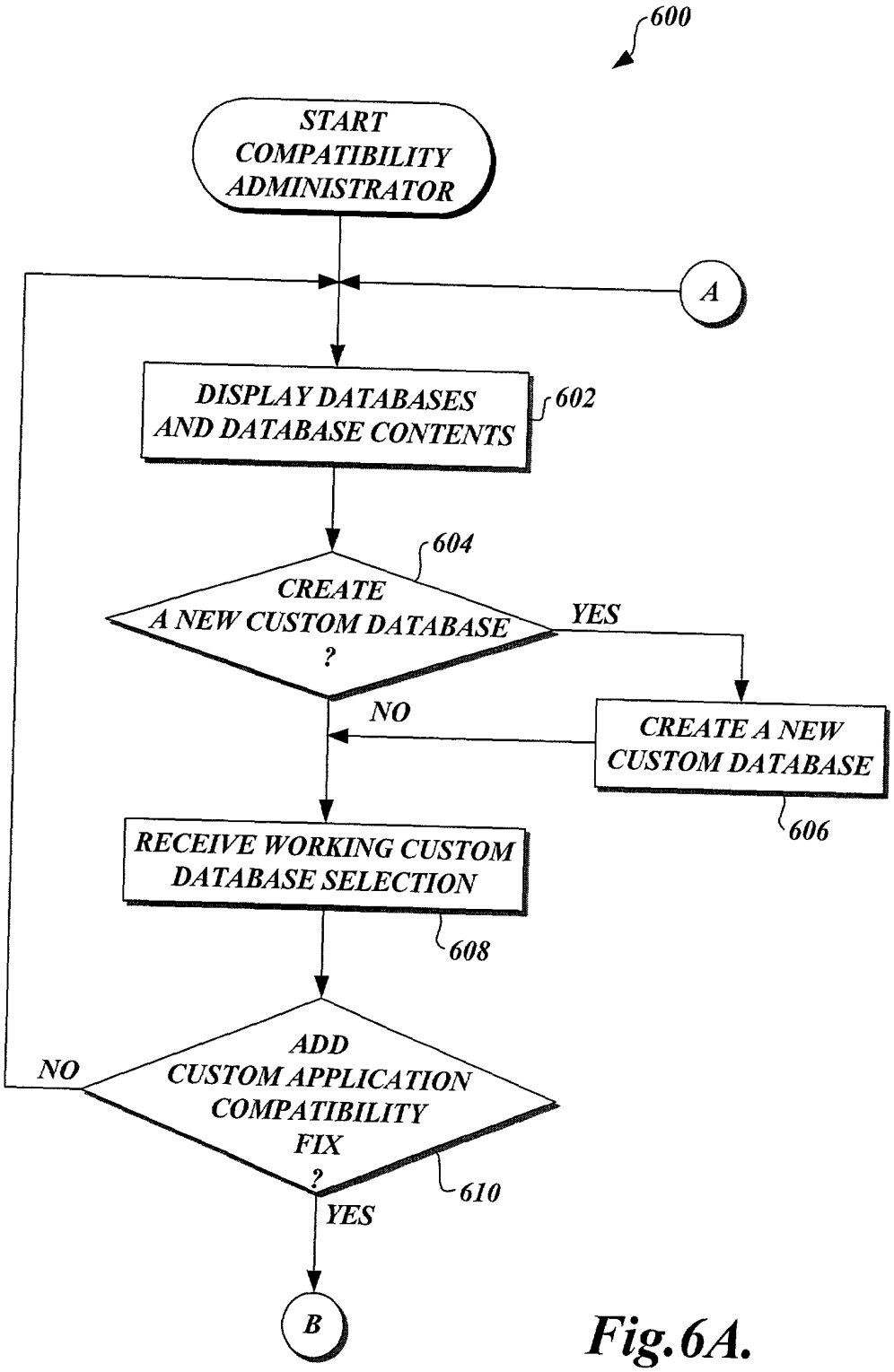

Fig.6A.

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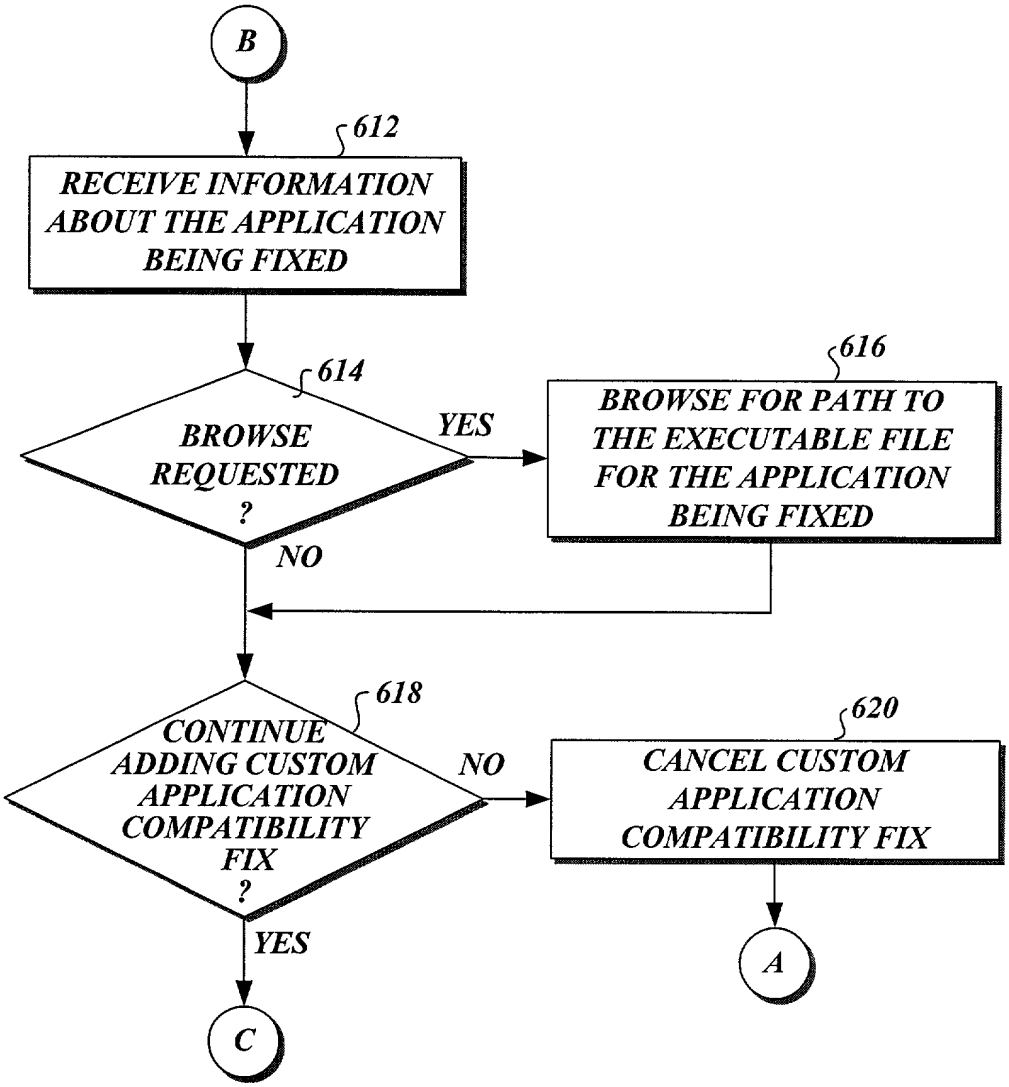
B
612
RECEIVE INFORMATION ABOUT THE APPLICATION BEING FIXED
614
BROWSE REQUESTED ?
YES
616
BROWSE FOR PATH TO THE EXECUTABLE FILE FOR THE APPLICATION BEING FIXED
NO
618
CONTINUE ADDING CUSTOM APPLICATION COMPATIBILITY FIX ?
NO
620
CANCEL CUSTOM APPLICATION COMPATIBILITY FIX
YES
A
C

Fig.6B.

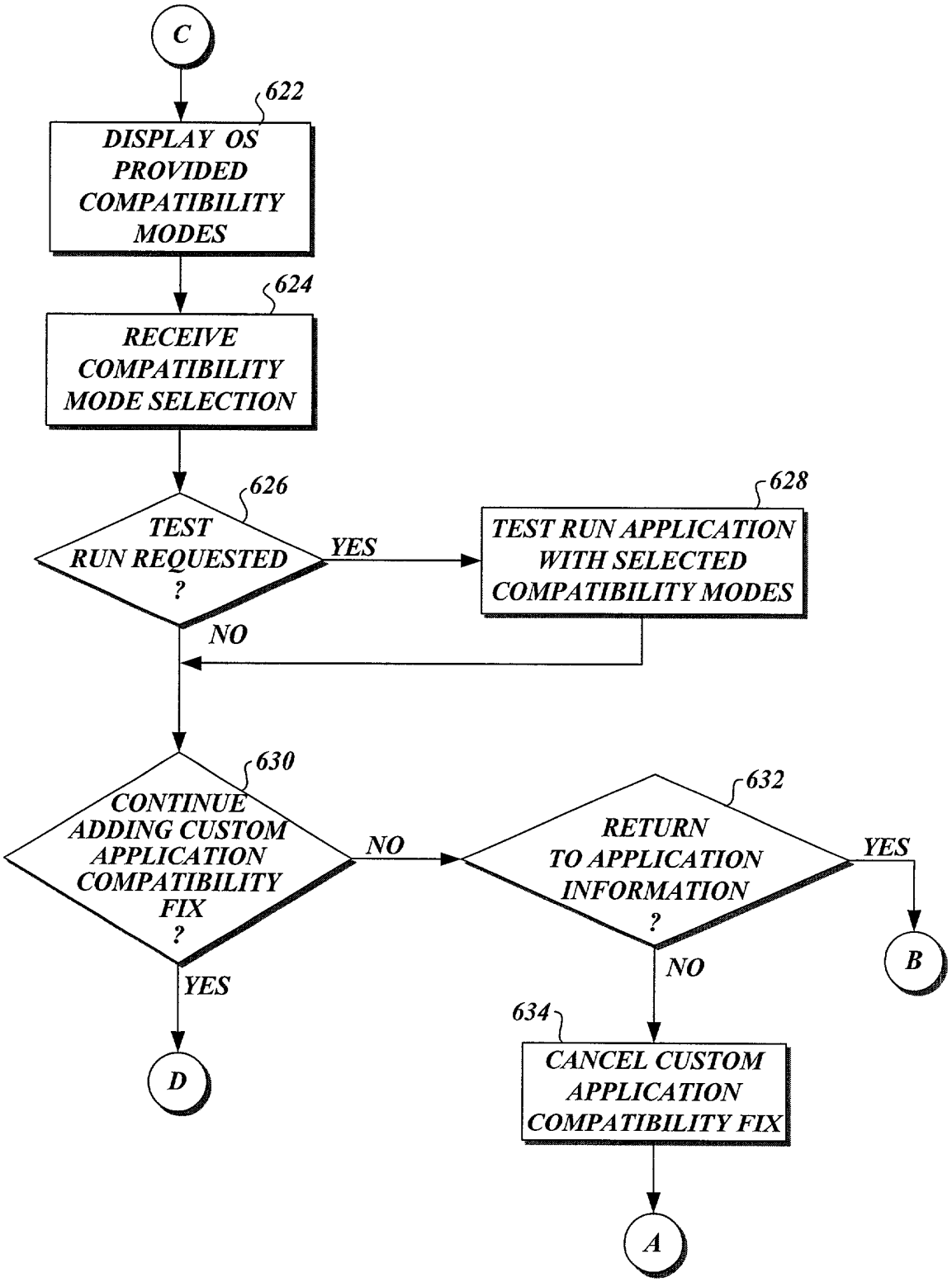
C
622
DISPLAY OS PROVIDED COMPATIBILITY MODES
624
RECEIVE COMPATIBILITY MODE SELECTION
626
TEST RUN REQUESTED ?
YES
628
TEST RUN APPLICATION WITH SELECTED COMPATIBILITY MODES
NO
630
CONTINUE ADDING CUSTOM APPLICATION COMPATIBILITY FIX ?
NO
632
RETURN TO APPLICATION INFORMATION ?
YES
B
YES
NO
D
634
CANCEL CUSTOM APPLICATION COMPATIBILITY FIX
A

Fig.6C.

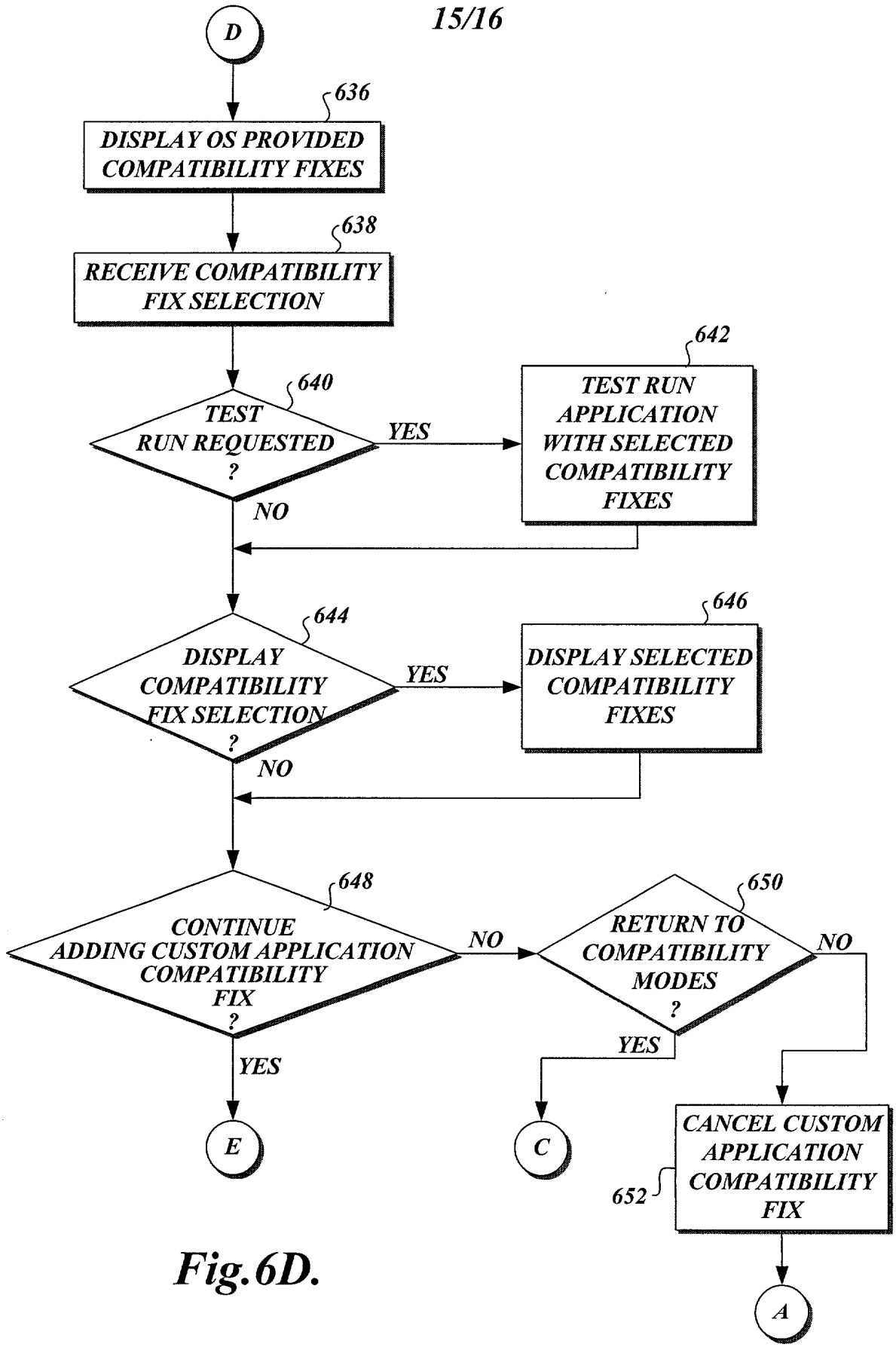

Fig. 6D.

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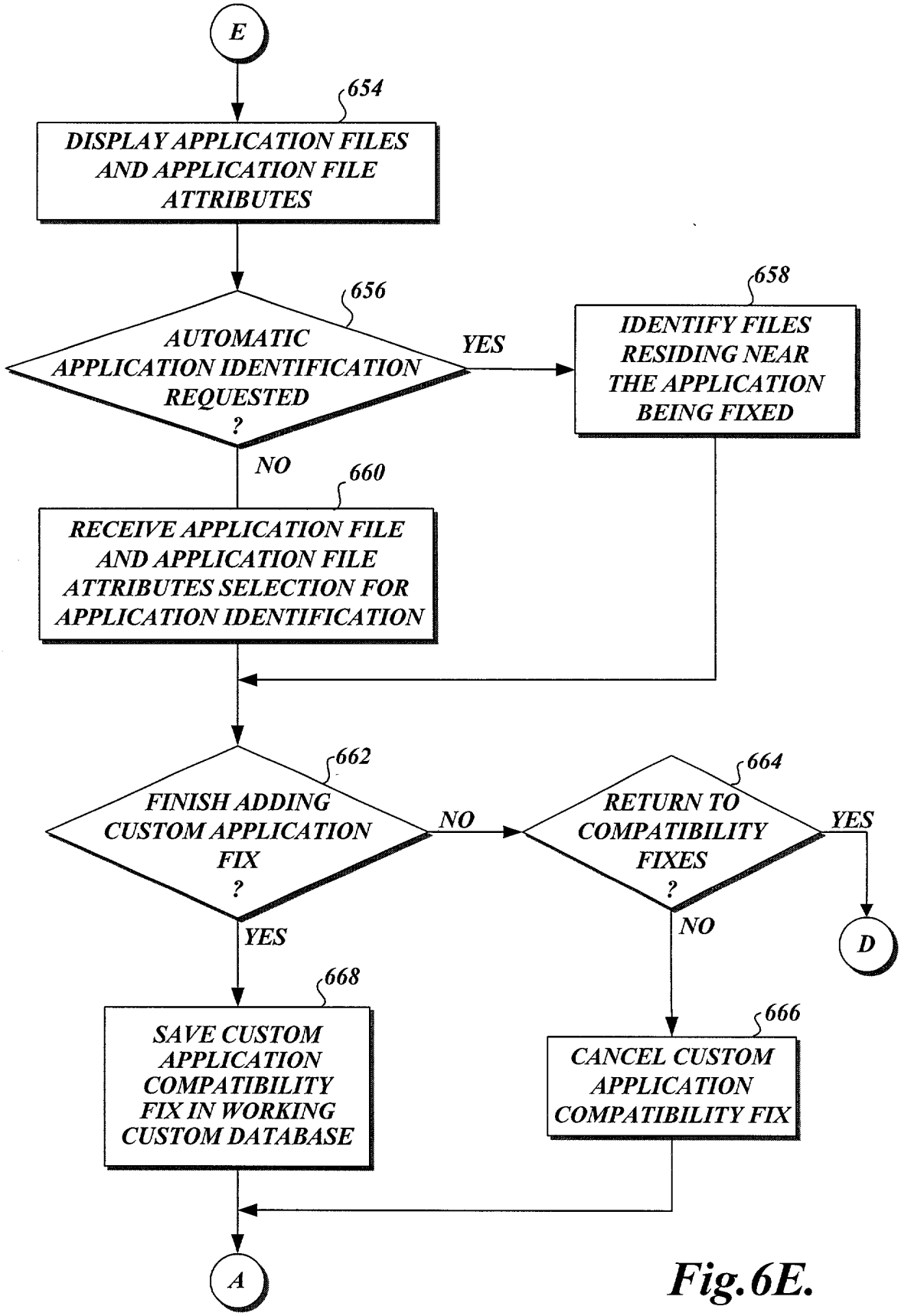
E
654
DISPLAY APPLICATION FILES AND APPLICATION FILE ATTRIBUTES
656
AUTOMATIC APPLICATION IDENTIFICATION REQUESTED ?
YES
658
IDENTIFY FILES RESIDING NEAR THE APPLICATION BEING FIXED
NO
660
RECEIVE APPLICATION FILE AND APPLICATION FILE ATTRIBUTES SELECTION FOR APPLICATION IDENTIFICATION
662
FINISH ADDING CUSTOM APPLICATION FIX ?
NO
664
RETURN TO COMPATIBILITY FIXES ?
YES
D
YES
NO
668
SAVE CUSTOM APPLICATION COMPATIBILITY FIX IN WORKING CUSTOM DATABASE
666
CANCEL CUSTOM APPLICATION COMPATIBILITY FIX
A

Fig.6E.